

IN THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. - 8. (Cancelled)

9. (New) A jointed mirror arm comprising:

at least two tubular parts;

a joint joining adjacent tubular parts of said at least two tubular parts so that the adjacent tubular parts are disposed at different solid angles and form a radiation beam path;

said joint including a tilted mirror;

said at least two tubular parts including a first tubular part, said first tubular part including a stationary radiation inlet for introducing radiation from a stationary optical source; and

said at least two tubular parts including a last tubular part, said last tubular part including a radiation outlet disposed downstream of said inlet in said radiation path;

a scanner for scanning radiation, said scanner disposed upstream of said inlet;

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an optical imaging system forming an image from said scanner, said optical imaging system being disposed downstream of said outlet.

10. (New) The jointed mirror arm of claim 9, wherein said imaging system comprises a plurality of imaging stages.

11. (New) The jointed mirror arm of claim 10, wherein said imaging stage comprises at least two lenses having an intermediate focal point therebetween.

12. (New) The jointed mirror arm of claim 11, wherein said lenses forming said imaging stage comprise a relay lens system.

13. (New) The jointed mirror arm of claim 12, wherein no tilted mirror is arranged at locations of the beam path which include an intermediate focal point.

14. (New) The jointed mirror arm of claim 13, further comprising image rotation optics for compensating image coordinate rotation.

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15. (New) The jointed mirror arm of claim 14, further comprising a measurement system for measuring said image coordinate rotation.

16. (New) The jointed mirror arm of claim 15, further comprising a drive for controlling said image rotation optics responsive to measurements from said measurement system.